

SEQUENCE LISTING

<110> Dixit, Vishva M.

<130> 128019201702

25

<120> CD40 BINDING COMPOSITIONS AND METHODS OF USING SAME

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60

120

180

234

282

330

378

426

474

50

gaa aag ttt gtg aag acc gtg gag gac aag tac aag tgt gag aag tgc Glu Lys Phe Val Lys Thr Val Glu Asp Lys Tyr Lys Cys Glu Lys Cys

cac ctg gtg ctg tgc agc ccg aag cag acc gag tgt ggg cac cgc ttc

His Leu Val Leu Cys Ser Pro Lys Gln Thr Glu Cys Gly His Arg Phe

tgc gag agc tgc atg gcc ctg ctg agc tct tca agt cca aaa tgt

Cys Glu Ser Cys Met Ala Ala Leu Leu Ser Ser Ser Pro Lys Cys

45

60

		75					80				85				
	gcg Ala 90						-					_	-		522
	tgc Cys														570
	aga Arg														618
	aat Asn	_	-			-	-			_	-		-	_	666
	gaa Glu														714
_	aaa Lys 170			_	_		_	_	_	_	_	_	_	-	762
	atc Ile														810
	tcc Ser														858
_	agt Ser	_		_			_	_	_		-		_	_	906
	aag Lys														954
	cac His 250														1002
	agc Ser		_		_	_	_	-	_	_	_		_	_	1050
	gaa Glu														1098
	gaa Glu														1146

				cat His		_	_			-	_		_			1194
				gac Asp												1242
				atg Met												1290
				agc Ser 365												1338
				gag Glu												1386
		_		cgc Arg		_	_	_	_	_			_	_	-	1434
		-	_	tac Tyr							-		_	_		1482
				cag Gln												1530
				tac Tyr 445												1578
_		_		Gly	_		_		_		_		_	_	_	1626
		-		atg Met	_		_		-	_	_				_	1674
	_	_		gtg Val			_	-	-	_	_				_	1722
_		_		gat Asp	_		_		-			_	_			1770
_	_			gga Gly 525		_			_			_		_		1818

gtg gcc caa act gtt cta gaa aat ggg aca tat att aaa gat gat aca Val Ala Gln Thr Val Leu Glu Asn Gly Thr Tyr Ile Lys Asp Asp Thr 540 545 550	1866
att ttt att aaa gtc ata gtg gat act tcg gat ctg ccc gat ccc Ile Phe Ile Lys Val Ile Val Asp Thr Ser Asp Leu Pro Asp Pro 555 560 565	1911
tgataagtag ctggggaggt ggatttagca gaaggcaact cctctggggg atttgaaccg gtctgtctc actgaggtcc tcgcgctcag aaaaggacct tgtgagacgg aggaagcggc agaaggcgga cgcgtgccgg cgggaggagc cacgcgagag cacacctgac acgttttata atagactagc cacacttcac tctgaagaat tatttatcct tcaacaagat aaatattgct gtcagagaag gttttcattt tcatttttaa agatctagtt aattaaggtg gaaaacatat atgctaaaca aaagaaacat gattttctt ccttaaactt gaacaccaaa aaaacacaca cacacacaca cgtggggata gctggacatg tcagcatgtt aagtaaaagg agaatttatg aaatagta	1971 2031 2091 2151 2211 2271 2331 2339

<210> 2 <211> 567 <212> PRT

<213> Homo sapiens

<400> 2

Met Glu Ser Ser Lys Lys Met Asp Ser Pro Gly Ala Leu Gln Thr Asn 10 Pro Pro Leu Lys Leu His Thr Asp Arg Ser Ala Gly Thr Pro Val Phe 20 25 Val Pro Glu Gln Gly Gly Tyr Lys Glu Lys Phe Val Lys Thr Val Glu 40 Asp Lys Tyr Lys Cys Glu Lys Cys His Leu Val Leu Cys Ser Pro Lys Gln Thr Glu Cys Gly His Arg Phe Cys Glu Ser Cys Met Ala Ala Leu Leu Ser Ser Ser Pro Lys Cys Thr Ala Cys Gln Glu Ser Ile Val 85 90 Lys Asp Lys Val Phe Lys Asp Asn Cys Cys Lys Arg Glu Ile Leu Ala 105 Leu Gln Ile Tyr Cys Arg Asn Glu Ser Arg Gly Cys Ala Glu Gln Leu 120 125 Met Leu Gly His Leu Val His Leu Lys Asn Asp Cys His Phe Glu Glu 135 140 Leu Pro Cys Val Arg Pro Asp Cys Lys Glu Lys Val Leu Arg Lys Asp 150 155 Leu Arg Asp His Val Glu Lys Ala Cys Lys Tyr Arg Glu Ala Thr Cys 165 170 Ser His Cys Lys Ser Gln Val Pro Met Ile Ala Leu Gln Lys His Glu 180 185 Asp Thr Asp Cys Pro Cys Val Val Ser Cys Pro His Lys Cys Ser 200 Val Gln Thr Leu Leu Arg Ser Glu Leu Ser Ala His Leu Ser Glu Cys 215 220 Val Asn Ala Pro Ser Thr Cys Ser Phe Lys Arg Tyr Gly Cys Val Phe 230 235 Gln Gly Thr Asn Gln Gln Ile Lys Ala His Glu Ala Ser Ser Ala Val 245 250 Gln His Val Asn Leu Leu Lys Glu Trp Ser Asn Ser Leu Glu Lys Lys 265 260

Val Ser Leu Leu Gln Asn Glu Ser Val Glu Lys Asn Lys Ser Ile Gln 280 Ser Leu His Asn Gln Ile Cys Ser Phe Glu Ile Glu Ile Glu Arg Gln 295 Lys Glu Met Leu Arg Asn Asn Glu Ser Lys Ile Leu His Leu Gln Arg 310 315 Val Ile Asp Ser Gln Ala Glu Lys Leu Lys Glu Leu Asp Lys Glu Ile 330 Arg Pro Phe Arg Gln Asn Trp Glu Glu Ala Asp Ser Met Lys Ser Ser 345 Val Glu Ser Leu Gln Asn Arg Val Thr Glu Leu Glu Ser Val Asp Lys 360 Ser Ala Gly Gln Val Ala Arg Asn Thr Gly Leu Leu Glu Ser Gln Leu 375 Ser Arg His Asp Gln Met Leu Ser Val His Asp Ile Arg Leu Ala Asp 390 395 Met Asp Leu Gly Phe Gln Val Leu Glu Thr Ala Ser Tyr Asn Gly Val 405 410 Leu Ile Trp Lys Ile Arg Asp Tyr Lys Arg Arg Lys Gln Glu Ala Val 420 425 Met Gly Lys Thr Leu Ser Leu Tyr Ser Gln Pro Phe Tyr Thr Gly Tyr 440 Phe Gly Tyr Lys Met Cys Ala Arg Val Tyr Leu Asn Gly Asp Gly Met 455 Gly Lys Gly Thr His Leu Ser Leu Phe Phe Val Ile Met Arg Gly Glu 470 475 Tyr Asp Ala Leu Leu Pro Trp Pro Phe Lys Gln Lys Val Thr Leu Met 485 490 Leu Met Asp Gln Gly Ser Ser Arg Arg His Leu Gly Asp Ala Phe Lys 505 Pro Asp Pro Asn Ser Ser Ser Phe Lys Lys Pro Thr Gly Glu Met Asn 520 Ile Ala Ser Gly Cys Pro Val Phe Val Ala Gln Thr Val Leu Glu Asn 535 540 Gly Thr Tyr Ile Lys Asp Asp Thr Ile Phe Ile Lys Val Ile Val Asp 550 Thr Ser Asp Leu Pro Asp Pro 565

<210> 3 <211> 49 <212> PRT

<213> Homo sapiens

<400> 3

Asp Lys Tyr Lys Cys Glu Lys Cys His Leu Val Leu Cys Ser Pro Lys Gln Thr Glu Cys Gly His Arg Phe Cys Glu Ser Cys Met Ala Ala Leu Leu Ser Ser Ser Pro Lys Cys Thr Ala Cys Gln Glu Ser Ile Val 40 Lys

<210> 4 <211> 50 <212> PRT

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Gln Ala Gln Cys Gly His Arg Tyr Cys Ser Phe Cys Leu Thr Ser Ile
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Leu Ser Ser Gly Pro Gln Asn Cys Ala Ala Cys Val Tyr Glu Gly Leu
Tyr Glu
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      <213> Homo sapiens
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Lys Ser Ile Ser Cys Gln Ile Cys Glu His Ile Leu Ala Asp Pro Val
Glu Thr Asn Cys Lys His Val Phe Cys Arg Val Cys Ile Leu Arg Cys
                                25
Leu Lys Val Met Gly Ser Tyr Cys Pro Ser Cys Arg Tyr Pro Cys Phe
Pro
      <210> 6
      <211> 50
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      <213> Homo sapiens
      <400> 6
Ser Glu Leu Met Cys Pro Ile Cys Leu Asp Met Leu Lys Asn Thr Met
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Val Ser
    50
      <210> 7
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<210> 7 <211> 49 <212> PRT <213> Homo sapiens

(213) Homo Sapiens

<400> 7

Glu Glu Val Thr Cys Pro Ile Cys Leu Asp Pro Phe Val Glu Pro Val

1 5 10 15

Ser Ile Glu Cys Gly His Ser Phe Cys Gln Glu Cys Ile Ser Gln Val

20 25 30

Gly Lys Gly Gly Gly Ser Val Cys Pro Val Cys Arg Gln Arg Phe Leu

35 40 45

Leu

(h

ds

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<210> 8
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                                    10
Leu Thr Ser Cys Asn His Thr Phe Cys Ser Leu Cys Ile Arg Arg Cys
Leu Ser Val Asp Ser Lys Cys Pro Leu Cys Arg Ala Thr Asp Gln Glu
                             40
      <210> 9
      <211> 50
      <212> PRT
      <213> Homo sapiens
      <400> 9
Asn Lys Tyr Thr Cys Pro Ile Cys Phe Glu Phe Ile Tyr Lys Lys Gln
Ile Tyr Gln Cys Lys Ser Gly His His Ala Cys Lys Glu Cys Trp Glu
                                25
Lys Ser Leu Glu Thr Lys Lys Glu Cys Met Thr Cys Lys Ser Val Val
Asn Ser
    50
      <210> 10
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                                                                         36
      <210> 11
      <211> 27
      <212> DNA
      <213> Homo sapiens
      <400> 11
tttgtcgact cactgtctct cctgcac
                                                                         27
      <210> 12
      <211> 30
      <212> DNA
      <213> Homo sapiens
      <400> 12
gctccagtgc aggaagcttt acatggatgc
                                                                         30
      <210> 13
      <211> 30
      <212> DNA
      <213> Homo sapiens
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ارتب

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<213> Homo sapiens	
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Tyr Pro Tyr Asp Val Pro Asp Tyr Ala 1 5	
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ggcatgacca gatgctga	18

r 5* 1

**'*